

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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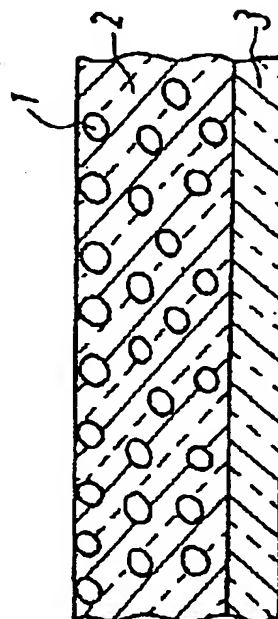
APPLICATION DATE : 26-06-90  
APPLICATION NUMBER : 02170901

APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : YAMAMOTO YASUSHI;

INT.CL. : C23C 18/22

TITLE : PRODUCTION OF ELECTRICALLY  
CONDUCTIVE MATERIAL



ABSTRACT : PURPOSE: To obtain an electrically conductive material with a uniform electrically conductive layer having satisfactory adhesion by forming a resin layer of a mixture of plural kinds of resins different from each other in solubility, roughening the surface of the resin layer by etching and electroless-plating the roughened surface with an electrically conductive metal.

CONSTITUTION: A resin layer of a mixture of plural kinds of resins different from each other in solubility, e.g., thermosetting resin 1 and thermoplastic resin 2 is formed on a substrate 3 and etched with a solvent, e.g., a solvent dissolving the resin 2 to roughen the surface of the resin layer by the difference in solubility between the resins 1, 2. The roughened surface is electroless-plated with an electrically conductive material to form an electrically conductive layer. By this method, an electrically conductive material can be produced with superior productivity.

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